5140-2

SD11
.R3

FIRE STATISTICS

1961

COCONINO NATIONAL FOREST

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FIRE TRENDS 10-YEAR PERIOD 1952 - 1961 INC.

	Man-Caused					Lightning					Man-Caused Class of People															
	A.	B.	C.	D.	E.	A.	B.	C.	D.	E.	Traveler	Picnickers	Timbermen	Campers	Children	Fishermen	Hunters	Rancher-Farmer	Woodcutter	Housewife	Stockmen	Miners	Other and Unknown	Man-caused	Lightning	TOTAL
1952	33	16	3	0	0	171	34	2	0	0	6	1	8	4	1	1	11	0	0	0	1	0	19	52	207	259
1953	55	31	2	1	0	262	61	0	0	0	4	2	2	1	3	3	29	3	0	0	4	0	38	89	323	412
		Kelly																								
1954	52	12	3	1	1	346	74	7	0	0	9	3	2	0	2	1	17	0	0	0	2	0	33	69	427	496
							Pivot																			
1955	67	24	4	1	0	143	26	0	0	1	3	0	1	1	3	0	24	0	0	0	1	0	63	96	170	266
							Fry																			
1956	54	26	1	1	0	322	92	3	2	1	3	0	5	1	5	0	21	0	0	0	1	0	46	82	420	502
1957	46	17	0	0	0	241	16	0	0	0	4	2	1	3	13	0	3	0	0	0	0	0	37	63	257	320
1958	66	7	1	0	0	363	11	0	0	0	14	4	1	12	8	7	3	2	0	0	0	0	23	74	374	448
1959	65	8	0	1	0	406	28	1	0	0	9	2	8	9	1	10	7	3	0	0	0	1	24	74	435	509
1960	43	15	2	0	0	552	54	1	0	0	2	13	7	3	7	2	10	1	1	0	0	0	14	60	607	667
		Saddle							House Mt.																	
1961	38	11	1	0	0	478	37	0	1	0	14	0	2	0	4	2	7	2	0	2	3	0	14	50	516	566
	519	167	17	5	1	3284	433	14	3	2	68	27	37	34	47	26	132	11	1	2	12	1	311	709	3736	4445

10-year man-caused average - 71
10-year average all causes -444

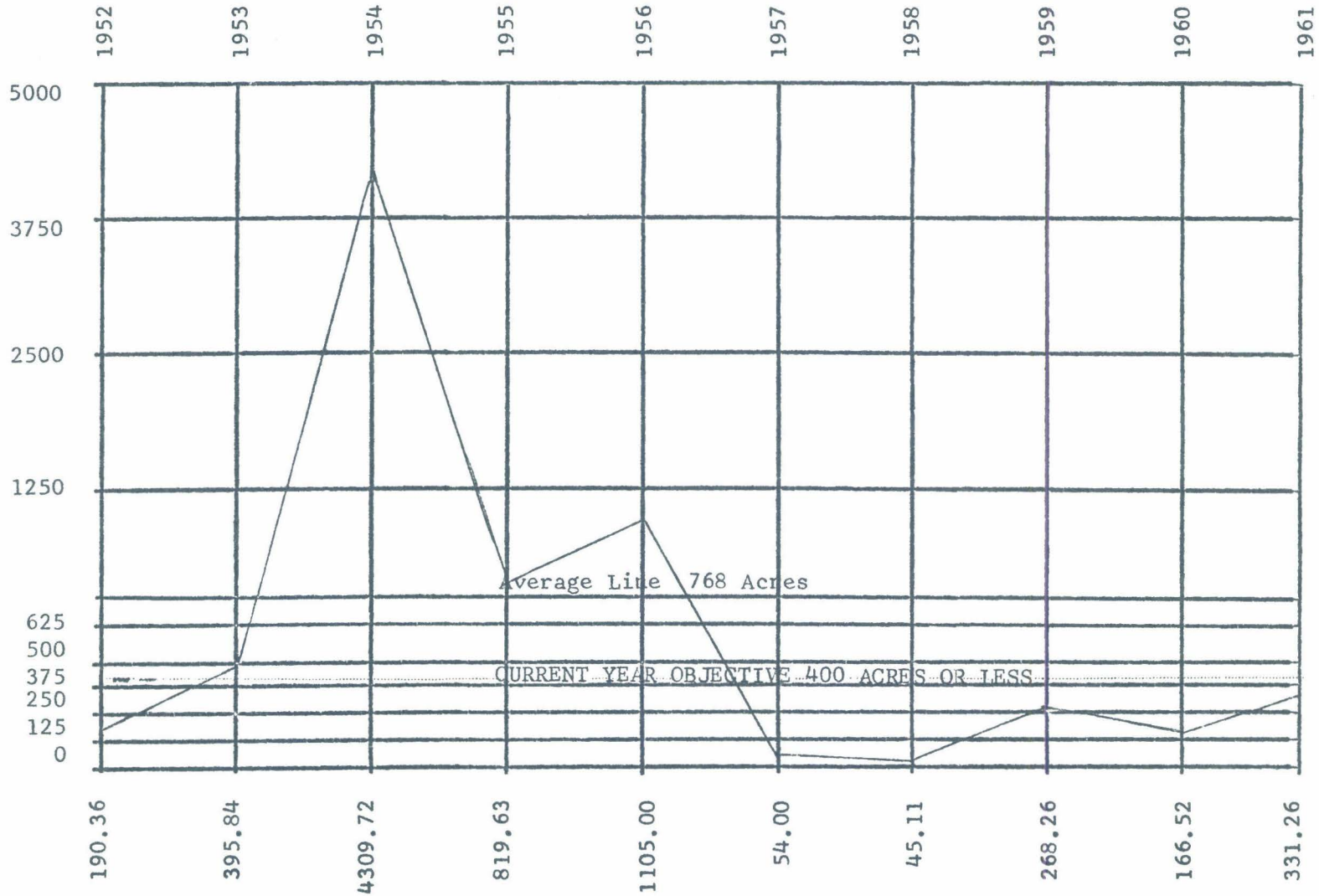
STATISTICS BY DISTRICTS

COCONINO NATIONAL FOREST

1961

DISTRICT	A.	B.	C.	D.	ACRES	LIGHTNING	M.C.	EXTRA PERIOD	TOTAL	L.E.	OTHER INSIDE	TOTAL ACRES
ELDEN	71	7	0	0	10.44	64	14	0	78	3	7.35	17.79
FLAGSTAFF	140	10	1	0	91.13	137	14	0	151	3	.39	91.52
LONG VALLEY	101	5	0	0	12.34	103	3	0	106	2	.00	12.34
MORMON LAKE	74	5	0	0	8.25	66	13	1	79	3	.35	8.60
WINSLOW	83	15	0	0	25.55	95	3	0	98	1	4.24	29.79
BEAVER CREEK	8	1	0	0	9.21	7	2	0	9	1	.00	9.21
SEDONA	39	5	0	1	162.01	44	1	0	45	1	.00	162.01
TOTALS	516	48	1	1	318.93	516	50	1	566	14	12.33	331.26

ACREAGE BURNED 10-YEAR PERIOD 1952-1961 INCLUSIVE
COCONINO NATIONAL FOREST



MAN-CAUSED FIRE RECORD 1961
COCONINO NATIONAL FOREST

Name of Fire	Date	Size Class	Ranger District	General Cause	Specific Cause	Class of People	Enforcement Action Yes	Enforcement Action No
Roberts	1/20	A	Elden	Resident	Burning Bldg.	Rancher-Farmer		X
Silver	2/24	B	Elden	Resident	Refuse Burning	Rancher-Farmer		X
Roy	4/1	A	Elden	Resident	Warming Fire	Other & Unknown		X
Dump	4/14	B	Elden	Other	Refuse Burning	Other & Unknown		X
Telephone	4/15	A	Mormon Lake	Resident	Cooking Fire	Other & Unknown		X
Saddle	4/22	C	Flagstaff	Incendiary	Job Fire	Other & Unknown		X
Strawberry	4/23	B	Elden	Resident	Cooking Fire	Other & Unknown		X
Morgan	4/23	A	Mormon Lake	Resident	Cooking Fire	Other & Unknown	X	
Carson	5/1	A	Flagstaff	Resident	Refuse Burning	Other & Unknown	X	
Townsend	5/18	A	Elden	Recreation	Cooking Fire	Traveler		X
Tuthill	5/18	A	Flagstaff	Recreation	Smoker Fire	Other & Unknown		X
Kinsey	5/24	A	Mormon Lake	Recreation	Cooking Fire	Other & Unknown		X
Clover	5/24	A	Long Valley	Forest & R.M.	Cooking Fire	Stockman	X	
Cottonwood	5/25	A	Beaver Creek	Recreation	Cooking Fire	Traveler		X
Pine	5/30	A	Flagstaff	Other	Welding	Construction Worker	X	
Cinder	6/5	A	Flagstaff	Recreation	Smoker	Traveler		X
Fossil	6/5	B	Beaver Creek	Forest & R.M.	Smoker	Stockmen	X	
Can	6/10	A	Flagstaff	Recreation	Smoker	Traveler		X
Ashurst	6/10	A	Mormon Lake	Hunt & Fish	Warming Fire	Fishermen		X
Mars	6/12	A	Flagstaff	Recreation	Warming Fire	Other & Unknown		X
Naval	6/13	A	Flagstaff	Power & Recl.	Exhaust	Construction Worker	X	
Highland	6/13	A	Elden	Other	Play with match	Children	X	
SW	6/16	A	Winslow	Forest & R.M.	Smoker	Timberman	X	
Bum	6/19	A	Elden	Other	Cooking Fire	Traveler	X	
Kens	6/27	A	Flagstaff	Other	Cooking Fire	Traveler		X
Lake Mary	6/27	A	Mormon Lake	Recreation	Hot Ashes	Traveler		X
Gail	7/2	A	Mormon Lake	Recreation	Cooking Fire	Traveler		X
Who	7/4	A	Mormon Lake	Other	Cooking Fire	Traveler		X
Antelope	7/7	B	Mormon Lake	Incendiary	Pyromania	Other & Unknown		X
Turkey	7/11	A	Winslow	Forest & R.M.	Smoker	Stockmen		X
Peggy	7/12	B	Elden	Other	Play with match	Children	X	
Townsend	7/17	A	Elden	Recreation	Cooking Fire	Traveler		X
Breakfast	8/28	A	Mormon Lake	Recreation	Cooking Fire	Traveler		X
Snag #2	8/30	A	Mormon Lake	Timber	Exhaust	Timberman	X	

MAN-CAUSED FIRE RECORD 1961
COCONINO NATIONAL FOREST

Name of Fire	Date	Size Class	Ranger District	General Cause	Specific Cause	Class of People	Enforcement Action Yes	Enforcement Action No
Cosnino	9/2	A	Elden	Recreation	Cooking Fire	Traveler		X
Bismark	9/22	A	Flagstaff	Recreation	Cooking Fire	Traveler		X
Hunter	9/23	B	Flagstaff	Hunt & Fish	Cooking Fire	Hunter		X
Rocky	10/6	B	Mormon Lake	Other	Smoker	Other & Unknown	X	
Sparky	10/7	A	Flagstaff	Recreation	Smoker	Traveler		X
Jack	10/7	A	Long Valley	Recreation	Play with match	Children	X	
Troutdale	10/7	B	Sedona	Power & Recl.	Powerline	Other & Unknown	X	
Ash Tray	10/16	B	Winslow	Hunt & Fish	Smoker	Fishermen		X
Lovers	10/18	B	Elden	Other	Smoker	Other & Unknown		X
Tower	10/18	A	Elden	Hunt & Fish	Smoker	Hunter		X
Middle	10/20	A	Long Valley	Hunt & Fish	Smoker	Hunter		X
Turkey	10/22	A	Mormon Lake	Hunt & Fish	Cooking Fire	Hunter		X
CS	10/23	A	Mormon Lake	Other	Play with match	Children		X
150	10/24	A	Flagstaff	Hunt & Fish	Smoker	Hunter		X
Spite	10/27	A	Flagstaff	Hunt & Fish	Smoker	Hunter		X
Dirty	10/28	A	Elden	Hunt & Fish	Smoker	Hunter		X

RELATIONSHIP OF ACREAGE BURNED BY CAUSES 1957-1961 INCLUSIVE

COCONINO NATIONAL FOREST

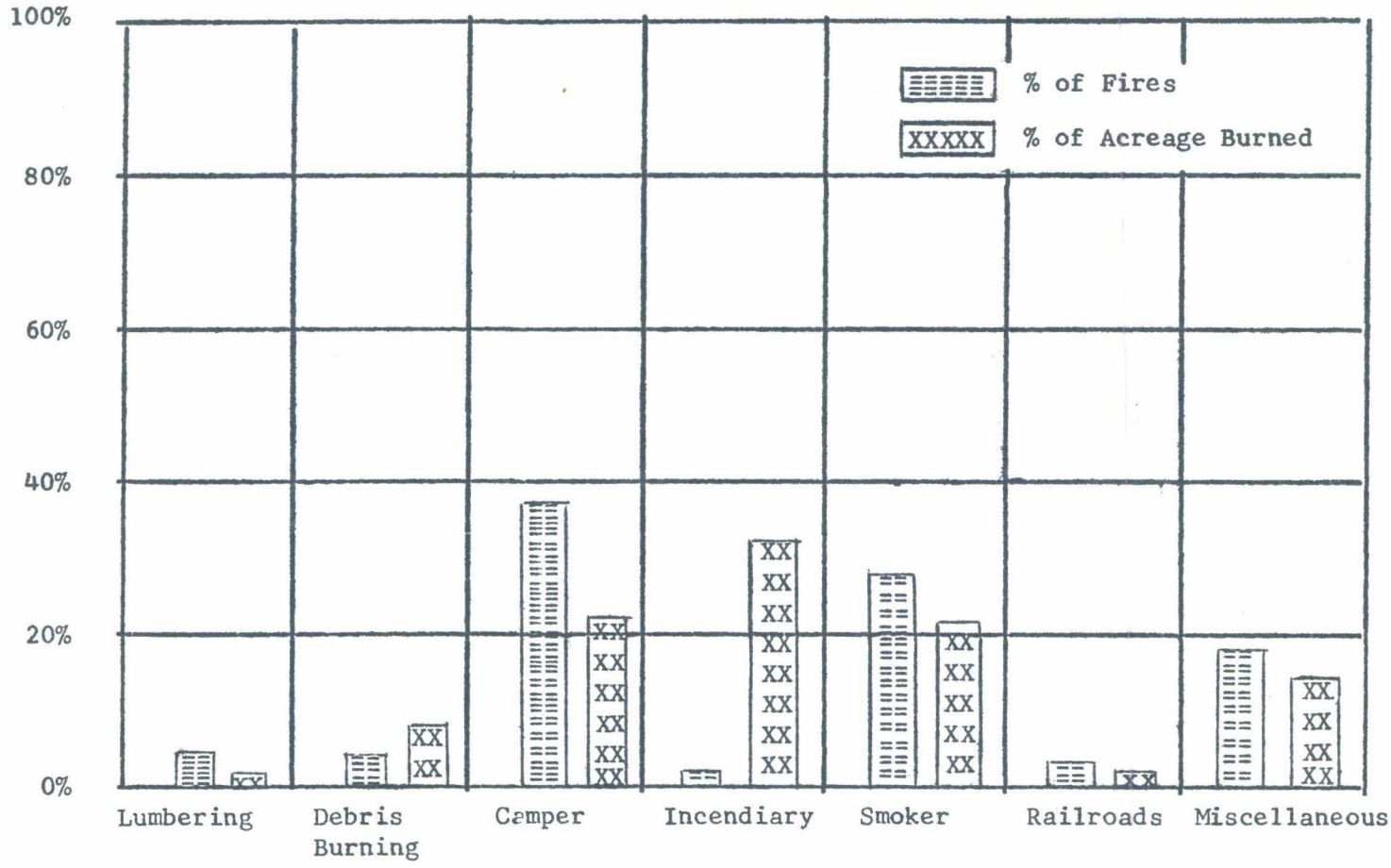


Figure 4

Graph based on 321 fires

RELATIONSHIP OF ACREAGE BURNED BY CAUSES

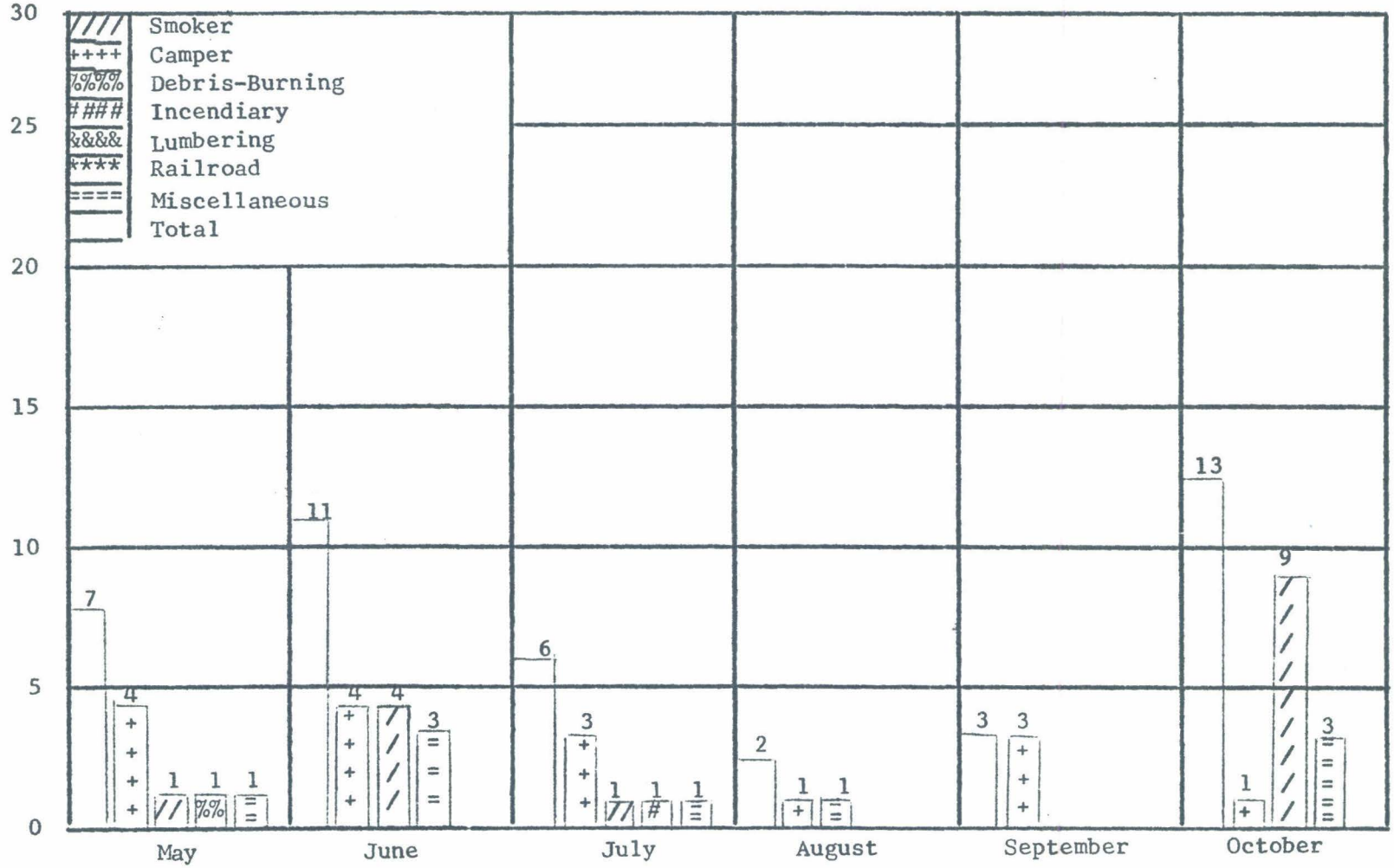
COCONINO NATIONAL FOREST
1957-1961 INCLUSIVE

Causes	Year						Acreage						Percent	
	1957	1958	1959	1960	1961	Total	1957	1958	1959	1960	1961	Total	Fires	Acres
Lumbering	1	1	6	7	2	17	.03	.04	1.35	1.67	.20	3.29	05.3	01.5
Debris-Burning	5	3	3	2	4	17	.10	.20	5.20	.31	8.19	14.00	05.3	06.7
Camper	29	30	27	23	17	126	11.41	.53	4.50	21.91	7.26	45.61	39.3	21.9
Incendiary	0	0	0	3	2	5	0	0	0	.35	65.3	65.65	01.6	31.5
Smoker	15	25	23	11	15	89	12.10	4.77	2.79	10.90	12.5	43.06	27.7	20.7
Railroads	2	0	2	2	0	6	1.60	0	.60	.61	0	2.81	01.8	01.4
Miscellaneous	11	15	13	12	10	61	1.90	3.51	13.41	9.57	5.62	34.01	19.0	16.3
Total	63	74	74	60	50	321	27.14	9.05	27.85	45.32	99.07	208.43	100 %	100 %

This work sheet is graphed in Figure 4, Page 6

COMPARISON OF MAN-CAUSED FIRES BY MONTHS, 1961

COCONINO NATIONAL FOREST



Total - 42

COCONINO NATIONAL FOREST
Analysis Form 5100-29 Reports for Period
May 1, to July 10, 1961 Inclusive Covering
Discovery, Report Time and Initial Attack Time.

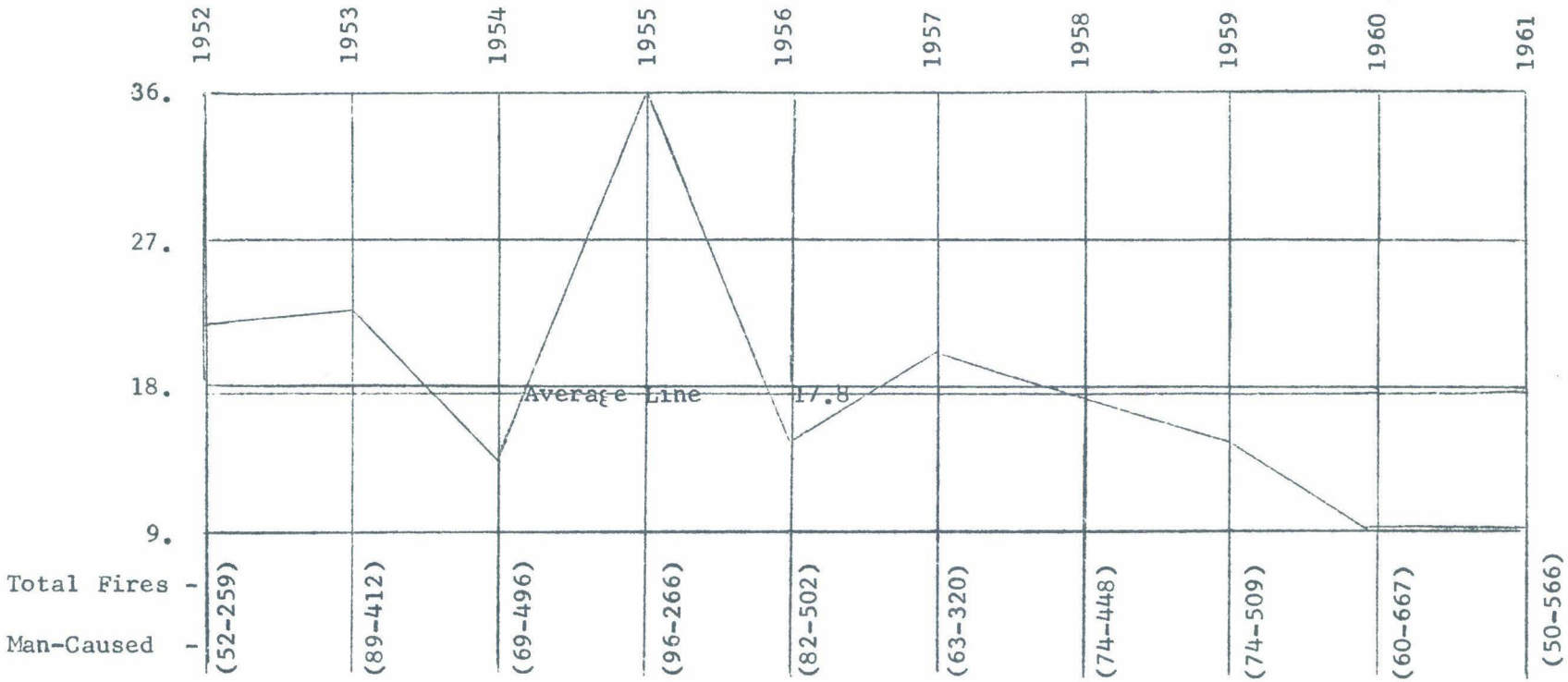
Discovery Time Interval / District	0-14"	15-29"	30-59"	1Hr-1Hr59"	2Hr-2Hr59"	3Hr-3Hr59"	4Hr-4Hr59"	5Hr-5Hr59"	Over 6Hrs.	Total
Winslow	2	1	4	6	1	1		1	15	31
Sedona	2	2		1		1			3	9
Mormon Lake	12	4	7	1	1		2		6	33
Long Valley	5	6	11	4	1	2	2		7	38
Beaver Creek									3	3
Flagstaff	15	12	18	4	5				9	63
Elden	9	3	8	4					3	27
TOTALS	45	28	48	20	8	4	4	1	46	204

Report Time Interval / District	0-6"	7-12"	13-18"	19-30"	31-59"	1Hr-1Hr59"	3Hr-3Hr59"	Over 6Hrs.	Total
Winslow	25	1	2	1	1		1		31
Sedona	9								9
Mormon Lake	29	2	1	1					33
Long Valley	37		1						38
Beaver Creek	2	1							3
Flagstaff	61	2							63
Elden	25	1	1						27
TOTALS	188	7	5	2	1		1		204

Initial Attack Time Interval / District	0-18"	19-30"	31-48"	49-59"	1Hr-1Hr59"	2Hr-2Hr59"	3Hr-3Hr59"	4Hr-4Hr59"	5Hr-5Hr59"	Over 7Hrs.	Total
Winslow	2	3	10		11	1	2			2	31
Sedona	2	1	2		1	1	1			1	9
Mormon Lake	3	6	6	4	11		2			1	33
Long Valley	5	4	6	1	9	5	3	2	2	1	38
Beaver Creek	1	1				1					3
Flagstaff	11	9	12	8	16	5	1			1	63
Elden	6	6	5	6	4						27
TOTALS	30	30	41	19	52	13	9	2	2	6	204

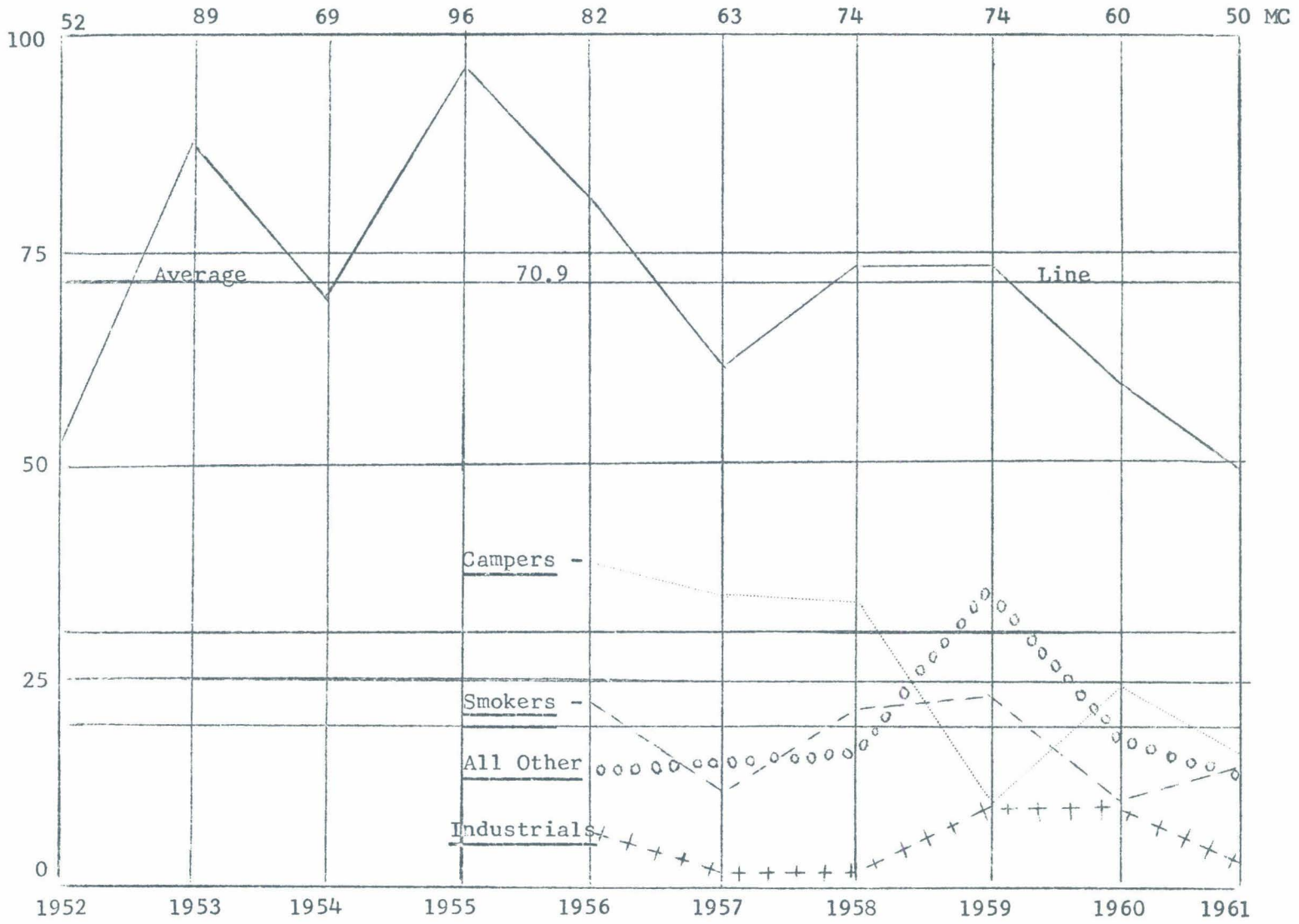
1961
Average 17.8 percent

MAN-CAUSED BY PERCENT
10-YEAR PERIOD 1952-1961, INCLUSIVE
COCONINO NATIONAL FOREST



TREND OF MAN-CAUSED FIRES BY 10-YEAR PERIODS 1951-1961 INCLUSIVE
COCONINO NATIONAL FOREST

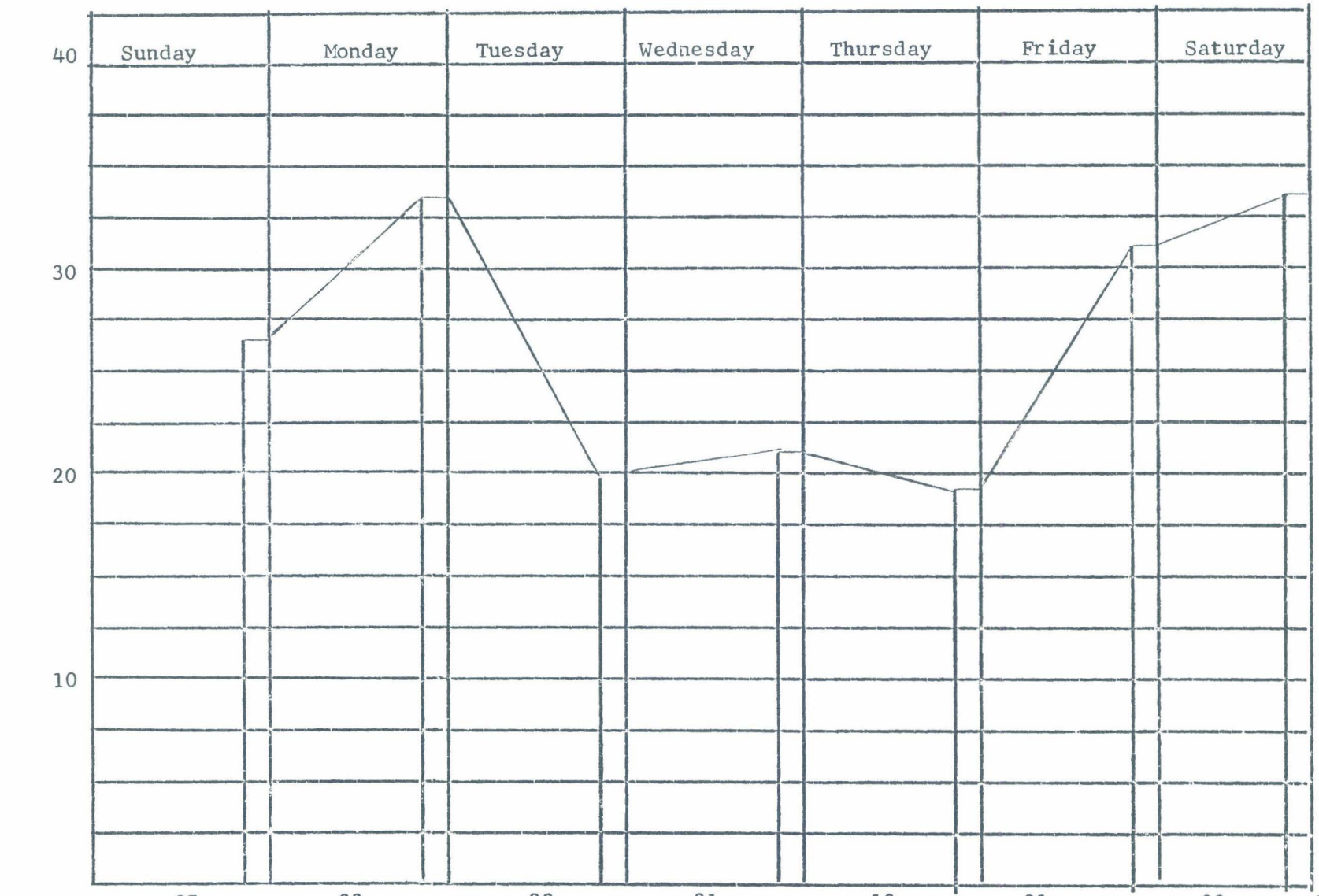
1956	
Smokers	22
Industrials	7
Campers	39
All other	14
	82
1957	
Smokers	12
Industrials	2
Campers	34
All other	15
	63
1958	
Smokers	21
Industrials	2
Campers	34
All others	17
	74
1959	
Smokers	23
Industrials	8
Campers	9
All others	34
	74
1960	
Smokers	11
Industrials	9
Campers	23
All other	17
	60
1961	
Smoker	15
Industrials	4
Campers	17
All others	14
	50
Total	403



Approximately 1 inch vertical = 20

1956-1961 inclusive, by causes

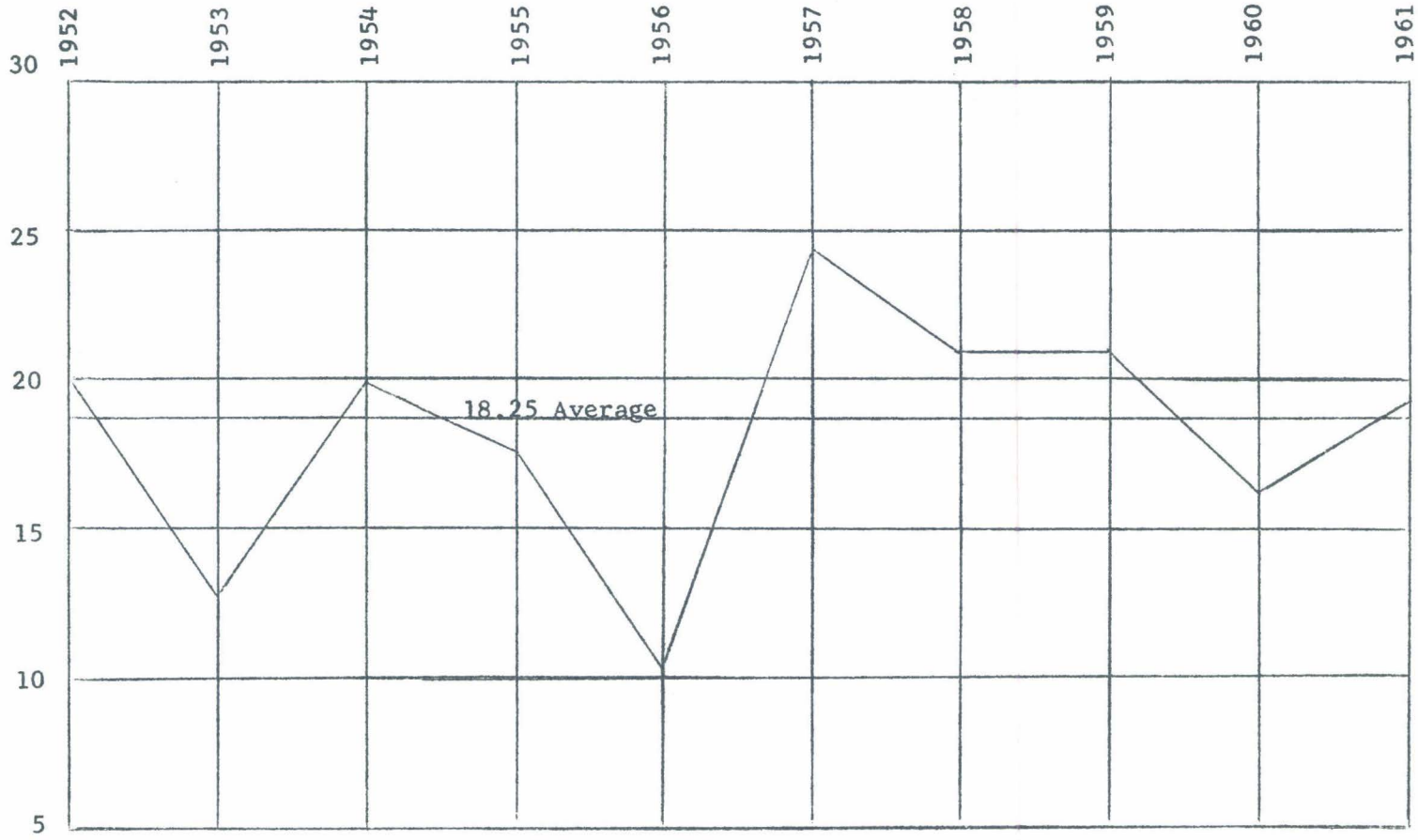
MAN-CAUSED OCCURRENCE BY DAYS OF WEEK
COCONINO NATIONAL FOREST
1959 to 1961 Inclusive



FIRST DISCOVERIES
COCONINO NATIONAL FOREST - 1961

Discovered By	District							Total
	Beaver Creek	Elden	Flagstaff	Long Valley	Mormon Lake	Sedona	Winslow	
Aircraft Obs. (F.S.)		8	37	32	16	9	39	141
Elden		16	21		27		1	65
Moqui				2			47	49
East Pocket			20		9	19		48
Baker Butte	1			39			6	46
Woody Mtn.		4	20		3	2		29
Others	1	8	5	1	5	6		26
Other F.S. Employee	1	9	6	2	4	2		24
O'Leary		21	1		1			23
Turkey Butte			22			1		23
Apache Maid	5			8	2	4		19
Mormon Lake		2		3	10		1	16
Hutch Mtn.				11			1	12
Saddle Mtn.		2	8					10
Buck Mtn.				7	1			8
Volunteer			7					7
Patrolman		2			1	1	1	5
Planned Cooperator		5						5
Aircraft Obs. (Other)		1	2			1		4
Diamond Point				1			1	2
F.S. Permittee	1		1					2
Promontory							1	1
Red Hill			1					1
TOTAL	9	78	151	106	79	45	98	566

PRECIPITATION 1952-1961 INCLUSIVE
COCONINO NATIONAL FOREST



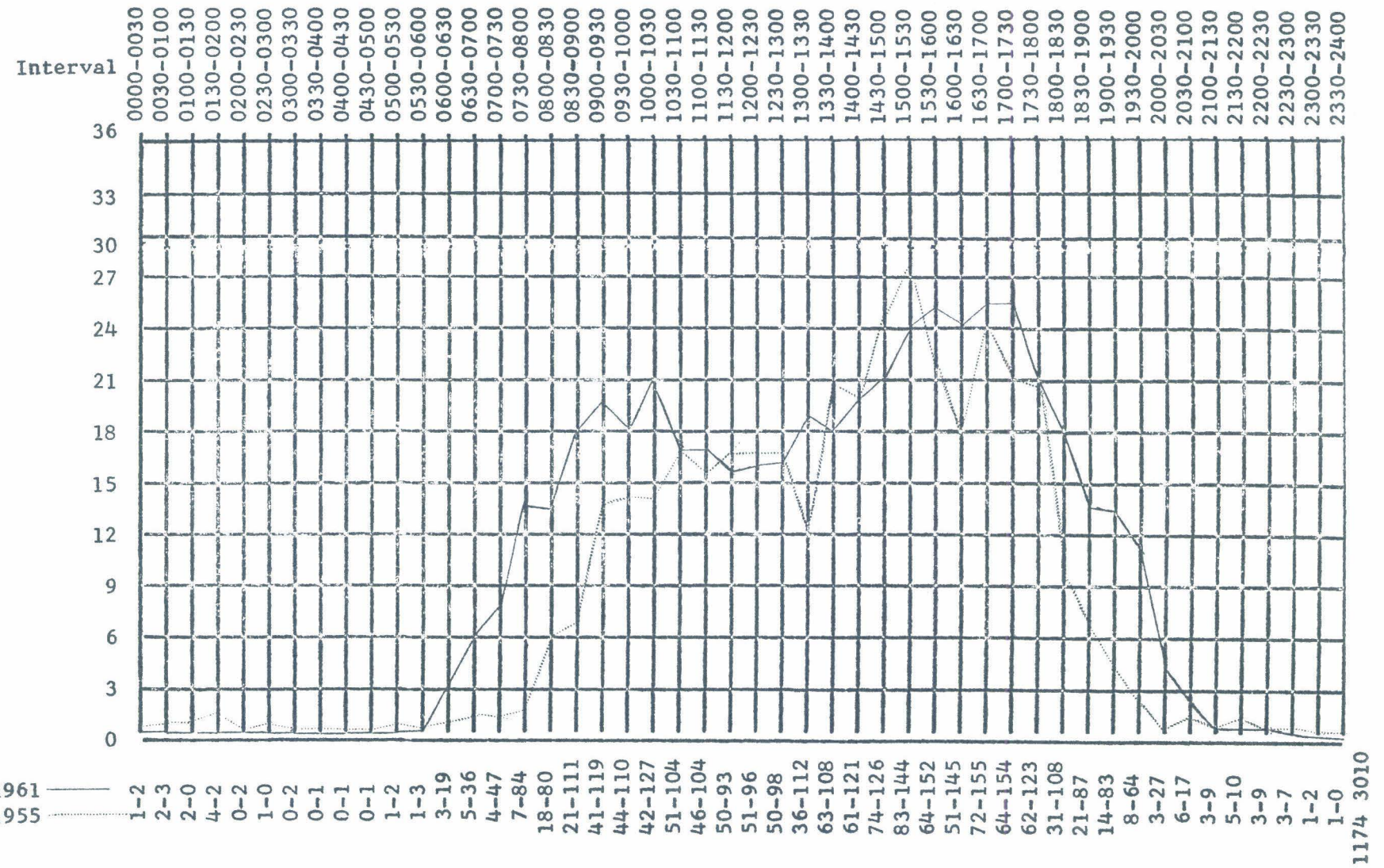
	Precip. Inches	Fires	(MC)
1952	20.00	259	52
1953	12.81	412	89
1954	19.55	496	69
1955	17.97	266	96
1956	10.37	502	82
1957	24.00	320	63
1958	21.24	448	74
1959	21.46	509	74
1960	16.58	667	60
1961	18.50	566	50

* TIME OF FIRST ATTACK BY 30-MINUTE INTERVALS
COCONINO NATIONAL FOREST 1961

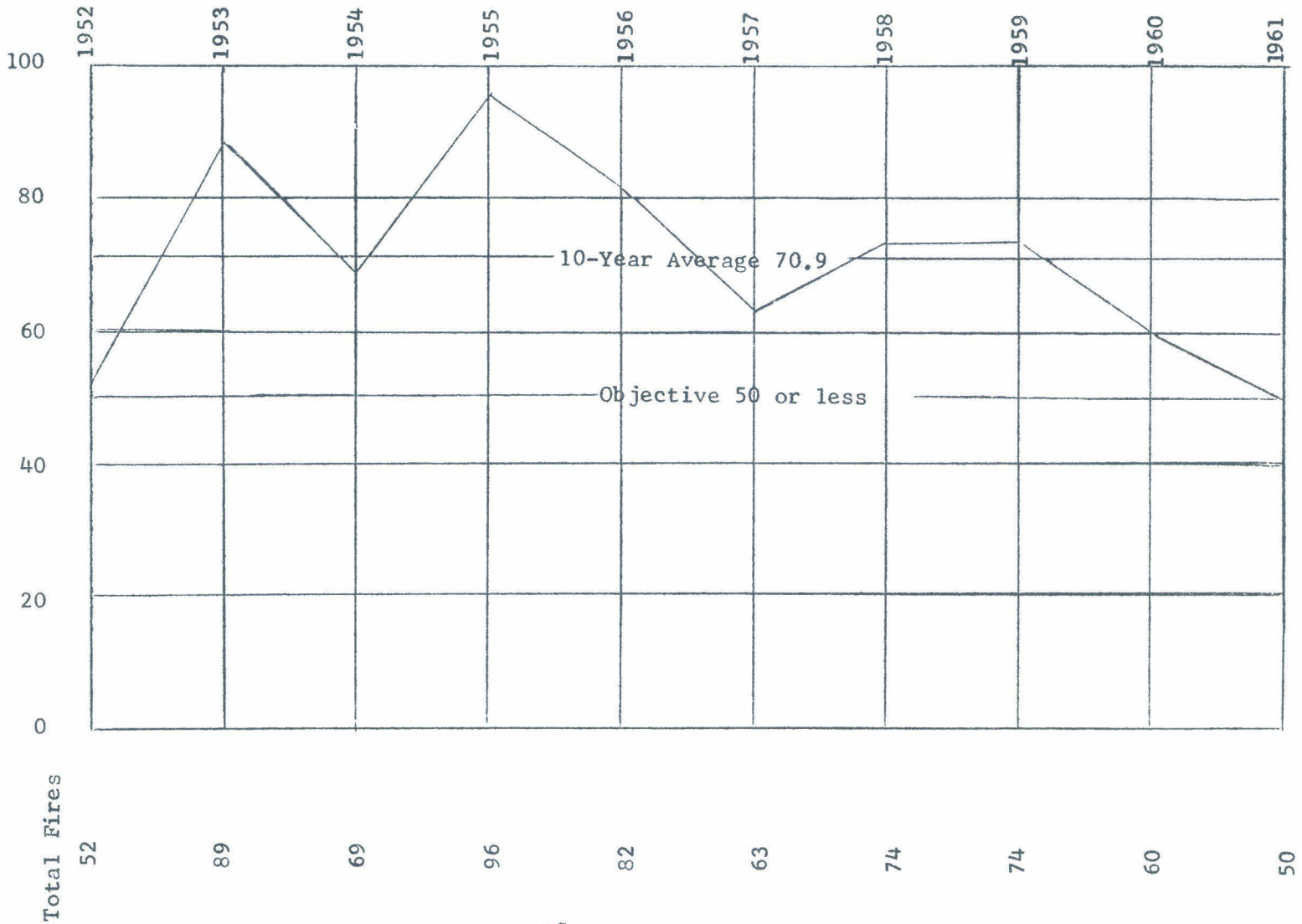
Interval	Beaver Creek	Elden	Flagstaff	Long Valley	Mormon Lake	Sedona	Winslow	Total
0000-0030								0
0030-0100						1		1
0100-0130								0
0130-0200								0
0200-0230								0
0230-0300								0
0300-0330								0
0330-0400								0
0400-0430								0
0430-0500								0
0500-0530			1		1			2
0530-0600			1					1
0600-0630		1	4		1		2	8
0630-0700		2	3	3	1	1	5	15
0700-0730		2		4	1	1	6	14
0730-0800		3	1	6	2	1	6	19
0800-0830		1	2	2		3	6	14
0830-0900		1	2	2	1		2	8
0900-0930		3	3	2	2	1	3	14
0930-1000			1	1	3	2		7
1000-1030			3	3		1	3	10
1030-1100		3	2	3	1	2	3	14
1100-1130	1	3	3	4	4		2	17
1130-1200		2	5	3	4	1	2	17
1200-1230		3	2	1	6	1	1	14
1230-1300	1	1	5	2	4	1	4	18
1300-1330		2	4	2	5	1	3	17
1330-1400		5	4		3	3	3	18
1400-1430		6	12	3	2		3	26
1430-1500		3	15	7	3	3	2	33
1500-1530	1	6	6	6	2	1	4	26
1530-1600		6	12	6	6	2	4	36
1600-1630		6	11	5		1	5	28
1630-1700		6	12	8	5	2	3	36
1700-1730	2	3	10	9	5	3	5	37
1730-1800	1	6	9	6	4	2	10	38
1800-1830		1	4	6	2	2	3	18
1830-1900	1		5	1	4	3	2	16
1900-1930	1		3	4	1	3	1	13
1930-2000		1	5	7	3		1	17
2000-2030		1	1		1	1	1	5
2030-2100						2	2	4
2100-2130	1							1
2130-2200		1						1
2200-2230					1		1	2
2230-2300					1			1
2300-2330								0
2330-2400								0
TOTALS	9	78	151	106	79	45	98	566

*Data on this sheet added to the period 1956-1960 and graphed on page 16.

TIME OF FIRST ATTACK BY 30-MINUTE INTERVALS
(Average)
9-YEAR PERIOD 1953-1961 Inclusive
COCONINO NATIONAL FOREST
(THE PERIOD 1953-1955 AS COMPARED TO 1956-1961 INCLUSIVE)



MAN-CAUSED 10-YEAR PERIOD 1952-1961, INCLUSIVE
COCONINO NATIONAL FOREST



SLURRY STATISTICS 1961

COCONINO NATIONAL FOREST

Number of fires treated----------12
Total Gallons Borate----------2,000
Total Gallons Bentonite----------27,000
Total Loads----------31

DATE	NO. LOADS	TYPE OF SHIP	NAME OF FIRE	DISTRICT
6/16	2	B-25	Dorsey	Flagstaff
6/24	4	T.B.M.	West Fork	Flagstaff
6/27	3	B-25	Willow	Long Valley
6/27	2	B-25	Buckhorn	Winslow
7/12	1	B-25	Peggy	Elden
7/12	1	Privateer	McClintock	Winslow
7/12	1	T.B.M.	Myrtle	Winslow
7/12	1	B-25	Knolls	Winslow
7/16	1	Privateer	Loy	Flagstaff
7/16	5	B-25	Gibson	Flagstaff
7/20	1	Privateer	Chavez	Winslow
7/20	4	B-25	Chavez	Winslow
8/1	1	Privateer	Wilson #3	Sedona
6/26	1	B-25	Tonto N.F. (Rim)	
6/26	1	T.B.M.	Tonto N.F. (Rim)	
6/26	2	Privateer	Tonto N.F. (Rim)	
	Total 31			

AIRPLANE STATISTICS 1961

Number of flights----------269
Total hours----------620.1
Total cost----------$17,248.00

Supplemental detection----------88.7
False alarm----------19.0
Condition reports----------18.0
Freight----------0.0
Airfield to airfield----------1.5
Aerial fire boss----------0.0
Aerial advisor----------312.0
Slurry (Birddog)----------12.5
Para cargo----------5.0
Lead-in----------24.0
First discovery----------128.5
Watershed reseeding (R-4 Plane)----------10.9
Total hours----------620.1

ZONE DISPATCHING 1961

NAME OF FIRE	FOREST AND REGION		NUMBER OF INDIANS DISPATCHED	NUMBER OF OVER-HEAD DISPATCHED	DATE OF FIRE
Madera Canyon	Coronado N.F.	R-3	50 Navajo	1	4/17/61
Saddle Fire	Coconino N.F.	R-3	100 Hopi	None	4/22/61
Reservoir Fire	Apache N.F.	R-3	100 Hopi	5	5/20/61
Willow Fire	Prescott N.F.	R-3	25 Hopi	None	6/5/61
*Fagan Fire	Coronado N.F.	R-3	None	19	6/12/61
**Horseshoe Fire	Coronado N.F.	R-3	None	14 O.H. & 2 Trainees	6/13/61
Roberts Fire	Tonto N.F.	R-3	50 Navajo - 225 Hopi	10	6/15/61
Sullivan Fire	Prescott N.F.	R-3	50 Hopi	None	6/19/61
Hatchery Fire	Tonto N.F.	R-3	50 Navajo - 200 Hopi	33	6/20/61
102 ABC Fire	Apache N.F.	R-3	75 Navajo - 50 Hopi	2	6/23/61
102 ABC Fire	Tonto N.F.	R-3	None	3	6/24/61
***Coulter Fire	Apache N.F.	R-3	None	15	6/24/61
102 ABC Fire	Sitgreaves N.F.	R-3	50 Hopi	None	6/26/61
102 ABC Fire	Coconino N.F.	R-3	50 Hopi	None	6/27/61
****Wiggins Fire	Sitgreaves N.F.	R-3	25 Navajo - 100 Hopi	10	6/27/61
Trumbull Fire	Kaibab N.F.	R-3	25 Navajo - 25 Santa Domingo	None	6/28/61
102 ABC Fire	Tonto N.F.	R-3	50 Hopi	None	7/2/61
House Fire	Coconino N.F.	R-3	50 Hopi	None	7/11/61
102 ABC Fire	Coconino N.F.	R-3	25 Hopi	None	7/14/61
Corn Creek Fire	Salmon N.F.	R-4	50 Navajo - 175 Hopi	13	8/1/61
*****Sage Crk Ridge Fire	Salmon N.F.	R-4	50 Navajo - 100 Hopi	13 O.H. & 2 Trainees	8/19/61
Horseshoe Blake	Clearwater N.F.	R-1	None	10 O.H. & 4 Trainees	8/6/61
******Higgins Ridge Fire	Nezperce N.F.	R-1	75 Hopi	8	8/9/61
Basin Fire	Sierra N.F.	R-5	75 Navajo - 150 Hopi	15	7/16/61
Queets Fire	Olympic National Park		25 Navajo	None	8/25/61
T O T A L S			2075	179	
Assisted Regional Dispatcher with movement of approximately 325 Zuni			325		
			Total 2400		

ASSISTED ALSO ON THE FOLLOWING FIRES:

*Ramsey (Coronado N.F.)
**Weeks (Coronado N.F.)
***Valley and Mitchel (Apache N.F.)
****Weimer (Sitgreaves N.F.)
*****Brushy Gulch (Salmon N.F.)
******Mine, Clancy, and Nevercreek (Nezperce N.F.)

DISTRICT ORGANIZATION 1961
COCONINO NATIONAL FOREST

BEAVER CREEK

(1) Roger Voyles----------Ranger
(2) Ralph Solether----------Ass't Ranger
(3) Carl Lightfoot----------G.D.A.

ELLEN

(1) Jean Hassell----------Ranger
(2) Richard Beaubien----------Ass't Ranger
(3) Laurel Brewer----------G.D.A.

FLAGSTAFF

(1) John Hart (Dean Gossard to 4/1/61)----------Ranger
(2) Donald Hudgens (Hart to April)----------Ass't Ranger
(Hudgens from July)----------Ass't Ranger
(3) Robert F. Legg----------G.D.A.

LONG VALLEY

(1) Bob Williamson----------Ranger
(2) Billy Buck (to October)----------Ass't Ranger
Roger Bumstead (from September)----------Ass't Ranger
(3) Cifredo Gutierrez----------G.D.A.

MORMON LAKE

(1) James Cochrane----------Ranger
(2) Acie Pittman (to November)----------Ass't Ranger
Wayne Orr (from November)----------Ass't Ranger
(3) Sam Orr (to November)----------G.D.A.

SEDONA

(1) William Holmes----------Ranger
(2) Benton Rogers----------G.D.A.

WINSLOW

(1) Harry Severtson----------Ranger
(2) William Troxel (to June 11, 1961)----------Ass't Ranger
Wesley Suhr (from October 1, 1961)----------Ass't Ranger
(3) Evins Baldwin----------G.D.A.

NARRATIVE FIRE REPORT
1961
COCONINO NATIONAL FOREST

The 1961 fire season would be classed as difficult. Lack of substantial winter time precipitation resulted in the necessity of entering the season in a rather uneasy position. With a precipitation deficien y of some 3.0 inches, the drought index tables of 2.50 inches or less were used. The fire danger graph indicates the early fire season covered the period April 1, to May 4; the mid or regular fire season May 4 to July 2, and the late season July 2 to November 13. The late and early seasons were characterized by the rather great number of days when high fire danger existed.

A cumulative comparison of the 1960-1961 drought index and rate of spread index shows that the 1961 season was somewhat easier than that of 1960 as indicated by taking the totals of the daily drought and rate of spread indices.

	1960			1961	
MONTH	D.I.	R.S.I.	MONTH	D.I.	R.S.I.
March	1270	240	March	1551	185
April	1997	430	April	1798	295
May	2428	375	May	2580	450
June	2682	770	June	2830	415
July	2861	545	July	2719	245
August	2632	230	August	1821	165
September	2069	255	September	1741	225
October	1685	205	October	2007	245
TOTAL	17,624	3,050	TOTAL	17,047	2,225

Of the 566 fires which occurred during the 1961 fire season, two entered the class C and D size; these two fires accounted for a total of 212 acres compared with a total of 331 acres for the year. The Saddle Fire, class C, which occurred April 22, was held to 64.3 acres, and control was established under very unfavorable conditions which included 50-mile an hour surface winds and two-year old logging slash.

The trend in acreage burned is downward. Figures for the last 10-year period (1952-1961 inclusive) reveal that the burned area amounted to 7,685.70 acres, or an annual average of 768.5 acres per year.

The Coconino's objective was 400 acres or less. An analysis of the 5-year period (1957-1961 inclusive) indicates acreage burned to be well below par. During the last 10-year period (1952-1961 inclusive), a total of 4,445 fires occurred from all causes. 709 of these were man-caused, or 15.95% of the total. In the last 3-year period (1959-1961 inclusive), a total of 1,742 fires occurred from all causes, 184 of these being man-caused, which is 10.56% of the total. In the year 1961, 566 fires occurred from all causes, and 50, or 8.83% were man-caused.

eriod (1952-1961 inclusive), the forest has had an annual
ed fires per year. During the 1961 fire season 50 man-
. The objective for the 1961 season was 50 man-caused fires
h we have achieved our par for 1961, the 10-year period is in
ctive. However, a downward trend seems to be shaping up. This
shed despite increased use and risk.

the cost classes for the year 1961 follows:

Cost Class #1 (not over $25.00 FFF)	38
Cost Class #II ($26.00 to $300.00 FFF)	460
Cost Class #III (301.00 to $1,000.00 FFF)	54
Cost Class #IV ($1,001.00 to $5,000.00 FFF)	9
Cost Class #V ($5,001.00 and over FFF)	5
TOTAL	566

The largest single factor influencing the cost record submitted would be the use of equipment--air tankers and aircraft--to assure early detection and control while fires were in their early stages and easier to put out. Helicopters were used to reach two fires, one on Maroon Mountain, which is inaccessible except by air, and one on Wilson Mountain, which is accessible by trail, but involves five to six hours travel time.

"Slurry" was used on a total of 12 fires; 31 individual loads were dropped, and it is estimated that 8 of these fires would have reached project size if "slurry" had been delayed.

The Western Zone dispatched 179 overhead and approximately 2,400 Indians to various forests within and without the Region. 133.7 hours of aircraft use and 12 tons of supplies were furnished during critical periods on a total of 27 project fires.

There were no fatalities or serious accidents.

The use of aircraft, decisions to use airtankers without delay and in sufficient quantities while the fires were small, and prompt use of plow and pumper units has resulted in early detection and prompt suppression and mop-up.

In conclusion the 1961 fire season would be classed as difficult and one which leaves room for improvement.

Dean M. Earl.

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